AMETEK®
AUTOMATION & PROCESS TECHNOLOGIES

Application
Plastic Machine Retrofits

Products Used
953VMax, 955 BRIK, 956 BLOK

Problem
In the early 1970's, Gemco dominated the Plastic Injection Molding field with our mechanical Limit Switch, the 915 / 917 Cycle Set. Over the years, Injection Molding OEM's moved away from this mechanical contact device to Linear Potentiometers. An Injection Molding machine normally uses 4 axis or more of linear positioning to control the process. These axis typically are the injector screw position, carriage position, mold closure, and mold eject. In the past, OEM's relied on Linear Potentiometers which were less than reliable in this application.

Solution
Whether it is to replace our old Cycle Sets or potentiometers, we have the right solution for their application. Sensors on Injection Molding machines are subject to high shock, vibration and extremely high temperatures. Magnetostrictive sensors provide the best solution for this application. Ametek manufactures three different style LDTs to meet the injection molding customers' needs. The 953 VMax is tolerant to this hostile environment. The 953 VMax is designed to operate up to 85°C, and can withstand 1000 G's of shock and 30 G's of vibration. The 955 Brik and 956 Blok LDT offer unparalleled mounting options when replacing linear Potentiometers.

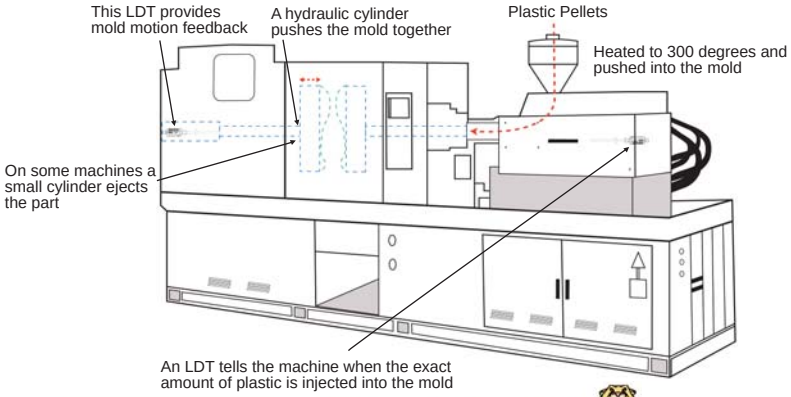
953 VMAX

Benefits
- High shock & vibration ensure longevity and reduced maintenance
- Superior response and accuracy means higher performance and improved part quality
- Competitive connectors for drop-in replacement of other LDTs
- Programmable zero & span
- Diagnostic LED allows quick troubleshooting
- Digital LDT can support Multi-magnet operation and can reduce the amount of sensors needed on a machine

All of the above means a lower overall sensor cost requirement over the life of the machine.

955 BRIK

Conclusion
The 953 VMax offers analog, digital and SSI outputs and is available with competitive connectors for drop-in replacement. When retrofitting older Plastic Injection Molding machines, the Gemco 950MD housing and 956 Blok can simplify the installation with simple two point mounting. Consult the factory at 800-635-0289 to discuss your application, or visit www.ametekapt.com for a complete listing of our LDT offerings.



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